

On the Approach



Administrator's Message



Jeffrey DeCarlo Massachusetts Department of Transportation (MassDOT) Aeronautics Division Administrator.

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Greetings from the new-guy! I am excited to join the great team at the Massachusetts Department of Transportation Aeronautics Division! This is a special opportunity, and one for which I am very grateful. I would like to thank Secretary Stephanie Pollack and the entire interview team and selection committee for choosing me as the Aeronautics Division Head. I also appreciate the many welcome notes and calls from airport managers, agency leaders, industry groups, consultants and other stakeholders.

My first 45-days on the job have zoomed by at what feels like hypersonic speed. The Aeronautics Division Team has helped me to *hit the ground running*, and have been quite patient in answering my many questions. I have already had the chance to

meet the managers and staff at eight of our 36 airports, and I am planning an aggressive visit schedule for this fall. The airport tours have been very informative, and I have enjoyed getting acquainted with the managers and their teams. The format for the visits seems to be working well; the completion of a survey, a tour of the airport and facilities, and the discussion of across-the-board airport needs, goals and concerns.

In addition to assisting airports, the Aeronautics Division has a wide variety of other responsibilities and areas of involvement. For example, the Aeronautics Division is the lead coordinating agency for the Massachusetts Emergency Management Agency (MEMA). We will discuss more about MEMA and other interesting

areas of note in the future.

I was honored to be asked to speak at this year's MAMA Conference in Brewster, and I had a chance to meet some of the MA airport leaders and stakeholders. It was also a real pleasure to meet with the lunch speaker and aviation advocate state Senator Thomas McGee, as well as the special honoree and previous MAC Commissioner and Chairman, Whip Saltmarsh. I also had a chance to attend my first MassDOT Board meeting, as well as a number of senior staff meetings, capital planning meetings, airport administrative building project sessions, meetings with state legislators, and conversations with the FAA New England Region leadership and airports team. (Continue on pg12)

The Aeronautics Division's mission is to promote aviation throughout the Commonwealth while establishing an efficient integrated airport system that will enhance airport safety, economic development, and environmental stewardship.

Just Plane Folks - Featuring Ken Gibson

By: Sara Lagblam, Steven Rawding (MassDOT Aeronautics Division)

Ken Gibson's passion for aviation started when he was very young. As the second oldest in a family of 14 children, growing up in West Medford he knew he wanted to fly since he was a child. Initially, he self-taught himself with the Microsoft Flight Simulator program on his Commodore 64 computer. Then, there was that special day that his father brought him to the Nashua Airport for his first flight and that was where he knew he was hooked, and wanted to continue. Ken took- off, flew the pattern, set up the approach, brought it in for the landing and then just then --- the instructor took the controls to land the plane, all the



while Ken knew he could have successfully landed . He can't believe this is where it all started but it is.

Ken remained focused on his dream, holding a variety of jobs including those of a Construction worker, Plant Mechanic, Certified EMT, and Boston Firefighter to list a few that helped him pay for flight training. Perseverance and dedication eventually helped him obtain his Airline Transport and Flight Instructor certifications. Ken holds a dual undergrad Degree in Aviation from Bridgewater State University and an Executive MBA degree from Northeastern.

Through the love and the excitement of aviation, this is where Project Takeoff was born. Through Project Takeoff, Ken wants to help aspiring children and teens to realize that if they have a dream and dedication, they can achieve whatever they desire. Ken believes in teaching things in three's; dedication, responsibility and pride. Project Takeoff's mission is to introduce and provide an educational and opportunistic avenue to underprivileged inner-city children and young adults.

The first step to Project Takeoff is dedication. The kids are taught the importance of being dedicated; they are provided with the core foundations and beliefs that they are capable of doing anything they set their minds to. Furthermore, they are obligated to show their dedication to Ken by their performance in school. If they are not keeping their grades up during the school year, they will not be accepted back into the program the following year. This helps teach the kids that the choices they make affects their path in life.

Project Takeoff is a 3 year program for 13-14 year old kids. With hopes of helping them get a job by the age of 18. This is done by giving them advice and interview training as well as providing them with real experience throughout their involvement in Project Takeoff. They can then add the experience to their resumes to help differentiate them from other kids their age. Besides teaching them how to get a job, they are also provided with tools to help them become more responsible young adults, for example, they are taught things such as how to open a bank account. These are all part of Ken's second goal for this project; responsibility.

The third and final goal is pride. Helping the kids feel proud of their accomplishments, dedication and hard work. It is also a goal to have them come back long after they left the program, and to provide further assistance and mentoring to the new kids participating in the program.

Ken believes that he would not have been able to accomplish all of that he has accomplished if it was not for his strong family support. He came from a large family, his parents provided the foundation needed to help him follow his dreams. His father taught them the importance of hard work and to go after anything they desired. He grew up in a household where he was told “I don’t want to hear “can’t” out of your mouth”. However, Ken soon realizes that many of these inner-city kids do not have the needed family foundation. Ken believes that Project Takeoff will provide the needed support and foundation and help them become more confident in pursuing their dreams. By exposing their minds to the realm of aviation and the many job opportunities encompassed within, it will be possible to bridge the gap between the importance of education and the tangible results they can achieve. Ken’s future vision for the program is to make it world-wide. Project Takeoff-USA, Project Takeoff-South Africa and so on. He also believes that it will bring people from other countries together, and serve as common ground for those coming from different aspects of life. Furthermore, the next goal at the moment is to provide a facility for the program which is have offices, classrooms and other necessary aspects needed for this program. The facility is planned to be shaped as a hangar that will also hold the aircrafts used for Project Takeoff.

The foundation and core principles within the organization are dedication, responsibility, and pride. Instilling these mantras in the students is not only pivotal to aviation but also to all other career paths and choices they may pursue. It is Project Takeoff’s mission to offer guidance through training, coaching, and mentoring. To provide a clear understanding on the importance of education from the start, the tangible connections they have between job opportunities, and the early decisions they make in life.➔



2015 International Aviation Art Contest

By: Steven Randing (Aviation Planner - MassDOT Aeronautics Division)

The Massachusetts DOT Aeronautics Division along with the National Association of State Aviation Officials (NASAO) sponsored this year's 2015 International Aviation Art Contest.

"World Air Games" is this year's theme. When you think of world air games, think of an air show, but an extended multi-day air show. The Fédération Aéronautique Internationale (FAI) 2015 World Air Games will held in Dubai this December 2015.

Students from ages 6 to 18 are encouraged to participate in the art contest.

At the state level the entries are judged by the Aeronautics Division staff. The staff looks forward to the judging. All entries receive a certificate and the top three entries from each age category are forwarded to Washington, D.C. for the National judging. The National winners are then forwarded on to FAI in Switzerland for final judging.



This year's state winners are:

- ➔ First Place Category III, Jefferson Kim
- ➔ First Place Category II, Jidapa Janpathompong
- ➔ First Place Category I, Nate Voss
- ➔ Second Place Category II, Emma Dessureau



Above - Winning Entry (Theme: World Air Games) - Category I, Nate Voss

- ➔ Second Place Category I, Noah Crocker
- ➔ Third Place Category II, Abigail Saner
- ➔ Third Place Category I, Avery Okon

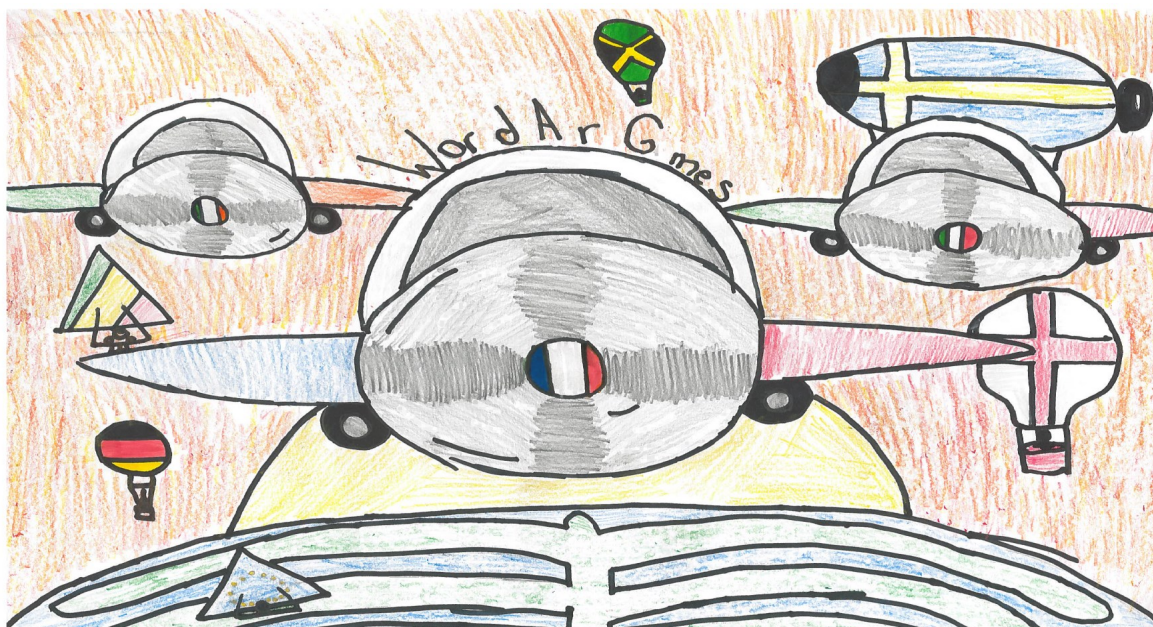
The contest is open to student's ages 6 to 18 years old. There are three categories ages 6 to 9, 10 to 13 and 14 to 18 years old.

Congratulations to all.

We normally have the contest brochures available in the Fall. Feel free to contact us for brochures. ➔



Above - Winning Entry Category II, Jidapa Janpathompong



Above - 2nd Place Winning Entry Category II, Emma Dessureau

Massachusetts Statewide Airport Economic Impact Study

By: Denise J Garcia (Director of Aviation Planning- MassDOT Aeronautics Division)

MassDOT would like to thank the airports and the members of the project management team who participated in the 2014 Statewide Airport Economic Impact Study, and share with you the dynamic results that this study brought to light. The latest findings revealed that when all the impacts of the 39 public use airports and associated military air facilities in the Commonwealth are added together, they generate \$16.6 billion in total economic output, create over 160,000 jobs, and support an annual payroll of \$6.1 billion. Since the completion of the preceding 2011 study, these impacts have increased by approximately \$4.7 billion in economic output, added 38,000 jobs, and currently support \$1.2 billion in annual payroll. This study demonstrates the positive impacts of continued investment at our public use airports that sustain the state's emerging economy and rapidly expanding business community.

The goal of this Study was to show how aviation serves as an economic engine for the Commonwealth, as well as documenting some of the many other benefits that air transportation brings to its host communities. Massachusetts' 39 public use airports offer a competitive business advantage. The outcome of this study determined that for every \$100 spent by aviation related businesses, an additional \$56 is created as a multiplier impact that boosts spending, payroll and employment benefits improving the quality of life in Massachusetts for all of its residents.



Beyond the quantitative aspects of aviation, Massachusetts airports also offer many qualitative benefits that go beyond the employment, payroll and economic output impacts. Qualitative benefits can be defined as those activities that take place at an airport on a regular basis that add to the quality of life but are difficult to add a dollar value to. Qualitative benefits typically enhance the health, welfare, or safety of individuals in the airport's market area. Examples of qualitative benefits include facilitating emergency medical transport, providing police support, supporting firefighting operations, conducting search and rescue operations, serving as a staging area for community events, providing youth outreach activities, and supporting the US military and other government organizations.

Aviation in the Commonwealth also plays an important role in generating tax revenues for Massachusetts and local municipalities. A tax analysis was created for this study that estimated the revenues generated through the state sales tax, local sales tax, lodging/restaurant taxes, rental car taxes, state income taxes, and aviation fuel taxes. The analysis found that Massachusetts airports generate an estimated \$846.9 million in tax revenues from aviation-related activities.

Aviation has many unique aspects. Many of these activities occur daily at our airports, and others often extend beyond the airport. Conversely, we've included case studies on both Aviation Education and Air Charter that serve as examples of the diverse aviation activities that occur both on and off airport.

Massachusetts Annual Economic Impacts

COMMERCIAL SERVICE AIRPORTS

Associated City	Airport Name	Total Employment ²	Total Payroll ²	Total Output ²
Bedford	Laurence G. Hanscom Field ¹	12,355	\$1,162,158,000	\$1,604,078,000
Boston	Boston Logan International Airport	131,991	\$4,290,597,000	\$13,359,865,000
Chicopee/Springfield	Westover Air Reserve Base/Metropolitan Airport ¹	5,241	\$195,081,000	\$255,691,000
Hyannis	Barnstable Municipal Airport-Boardman/Polando Field	2,135	\$85,358,000	\$208,023,000
Nantucket	Nantucket Memorial Airport	3,802	\$116,648,000	\$378,531,000
New Bedford	New Bedford Regional Airport	297	\$10,625,000	\$32,434,000
Provincetown	Provincetown Municipal Airport	379	\$11,336,000	\$33,945,000
Vineyard Haven	Martha's Vineyard Airport	1,232	\$38,170,000	\$120,049,000
Worcester	Worcester Regional Airport ³	358	\$14,925,000	\$46,433,000
COMMERCIAL SERVICE AIRPORTS TOTAL		157,790	\$5,924,898,000	\$16,039,049,000

¹ Includes economic impacts associated with military operations located on the airport. See page 8 for specific military totals.

² Total impacts include all on-airport business, construction, visitor, and multiplier impacts.

³ Impacts for 2013 only include two months of JetBlue service. In 2014, Worcester Regional's JetBlue service surpassed 110,000 enplanements.

As a component of the 2014 Statewide Airport Economic Impact Study, we've also added 4 YouTube videos to this project entitled:

MassDOT Aeronautics Division Overview

Beyond the Airport: Air Charter

Beyond the Airport: Aviation Education

Beyond the Airport: Public Safety

To learn more about the Statewide Airport Economic Impact Study, the executive summary can be found at <http://www.massdot.state.ma.us/portals/7/docs/airportEconomicImpactSummary.pdf>.

To access the project videos, please visit our website: www.mass.gov/massdot/aeronautics and click on the banner 'Beyond the Airport', then select "Learn more about MA Aeronautics on YouTube." ➔

Statewide Airport Administration Building (SAAB) Program

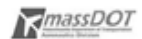
By: Thomas Mahoney (Director of Airport Engineering - MassDOT Aeronautics Division)

In the spring of 2014, our Architect, Fennick McCredie Architecture LTD (FMA), embarked on an ambitious schedule to complete the design and bid for Group 1 buildings as part of MassDOT Aeronautics Division's Statewide Airport Administration Building Program (SAAB) by the spring of 2015. Phase I consists of the design and constructions for the first 3 buildings under our statewide program. These buildings are located at Beverly, Fitchburg and Mansfield Municipal Airports.

This initiative began in 2010 with the Massachusetts Statewide Airport System Plan (MSAPSP) which identified 15 airports within our airport system that either needed a new, or renovated an existing building, administration building. In 2013, FMA was selected by the Designer Selection Board (DSB) to prepare a Master Plan which evaluated and prioritized the 15 airports. The Master Plan was completed in March of 2014. The work that FMA did was well received that MassDOT requested the DSB allow MassDOT to continue with FMA in the next phase of the project which was design and construction phase services for Group 1 of the program.

The designs for all three buildings have been completed and bid. Contracts have been awarded and all three buildings are now under construction. The buildings at Beverly and Mansfield are well on their way and Fitchburg is just beginning construction. All three buildings should be completed within 9 months from the start of construction. Look for the ribbon cutting sometime in the spring of 2016. ➔

46 L. P. Henderson Rd
Beverly, MA 01915

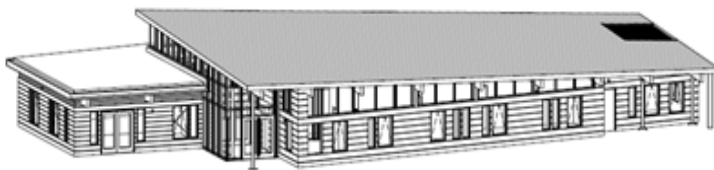
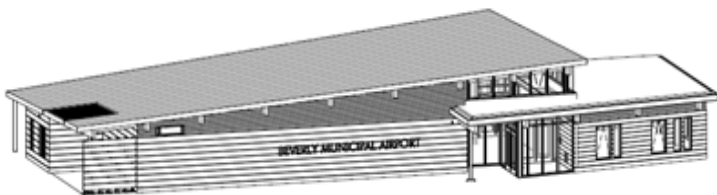


PROJECT IMAGE

SUBMISSION

11.05.14

BID DOCUMENTS



LOCATION PLAN



MassDOT Statewide Vegetation Management Program – Updates to Yearly Operating Plans

By: Nathan Rawding (Environmental Analyst - MassDOT Aeronautics Division)

MassDOT Aeronautics began its effort to update Yearly Operating Plan (YOPs) at 13 airports across the state in summer of 2014. With assistance from Stantec, MassDOT documented the conditions within each airport's Vegetation Management Areas (VMAs) which are approved through the airports VMP. With information from the airports in hand, Stantec went to work transforming hardcopies of plans into new CAD and GIS layers. The next step for the program is to select 3-4 airports annually to move forward with updates to the YOP, develop bid packages, and select vendors to carry out the needed herbicide and cutting work to reduce vegetation in the VMAs from creating airfield hazards and to prevent existing or future penetrations to airspace.



Above—Vegetation Regrowth at Beverly Airport

Based on a prioritization ranking, MassDOT has selected Beverly, Norwood, and Southbridge as the first group of airports to move forward in Fiscal Year (FY) 2016 through the YOP update process. MassDOT's Statewide Vegetation Management Program aims to provide assistance to airports with YOP updates as necessary and to address vegetation regrowth. Questions about the MassDOT Aeronautics Statewide VMP – Yearly Operational Plan Updates can be directed to Environmental Analyst, Nate Rawding at 617-412-3636.

The Aeronautics Division is out and about...

By: Sara Laghlam (Airport Engineer -MassDOT Aeronautics Division)

The staff from the Massachusetts Department of Transportation (MassDOT) Aeronautics Division looks forward to attending different events such as Fly-ins, Bring your kids to Work Day, Airshows, Mama on the Hill day, and open houses. With our event display boards, flight simulators, aviation education brochures and pamphlets, and airport directories in tow, we head out to as many events as possible. Here are some photos from those events. Enjoy! ✈





Administrator's Message (Continued from page 1)

My aviation background is quite varied, and has included US Airforce (USAF) active duty, Air National Guard, USAF Reserve, airlines, and aviation consulting work with industry, academia and the federal government. I have been fortunate to have experience working directly with airports, as well as on airport related R&D. However, I know that I have a lot to learn, especially since the Administrator's position is a new role for me. Hopefully, my previous experience will allow me to bring value to the Commonwealth and MassDOT, sooner rather than later. I can assure you that I have the throttles in full afterburner, and accelerating to get up to speed. The Aeronautics Division's mission is to promote aviation throughout the Commonwealth while establishing an efficient integrated airport system that will enhance airport safety, customer service, economic development, and environmental stewardship. My vision for the Aeronautics Division can be best summed up by the title used in a recent presentation, "Sustaining the Successes, Continuing to Improve and Anticipating the Future."

Safety will always be our key driver, and our team will always be our key enabler. In this context, our "team" is not limited to our core Aeronautics Division staff. Rather, the team includes the entire MassDOT organization, and all of the stakeholders that we work with to successfully accomplish our mission. With this in mind, my vision is for the extended team to build on our positive momentum, improve where possible, and seek to identify and embrace new opportunities.

It was obvious to me on the first day on the job that another enabler of mission success is the MassDOT organization-at-large. MassDOT includes four divisions, Aeronautics, Highway, Rail & Transit, and the RMV. The Aeronautics Division leverages a host of MassDOT support services, while also working directly with the other the Divisions to accomplish certain projects. For example, the Highway Division has supported our airport signage efforts, and the Rail & Transit Division has helped us with our security camera statewide project.

I look forward to communicating with you in the future. Future articles will certainly include news about the exciting aviation projects in-progress in the Commonwealth. Additionally, we will be asking for contributions from our stakeholders. Let's try to create a conversation about hot topics in aviation, as well as new ideas and problems that, on-the-face, appear daunting. Through this conversation, I am confident that we can solve some of the problems, and in the process become thought leaders in aviation. Perhaps then, we can translate this thought leadership into practical application in the real world of Massachusetts aviation; in other words, vision-to-reality! ➔



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